



# Junxiu Tang

Interactive Data Group  
State Key Lab of CAD&CG  
College of Computer Science and Technology  
Zhejiang University

Rm.323, Mengminwei Bd.  
Zijingang Campus, Zhejiang University  
No.866 Yuhangtang Rd. Xihu District  
Hangzhou, Zhejiang

tangjunxiu@zju.edu.cn  
<http://ahugh19.github.io>

## EDUCATION

- Present  
Sept. 2019 **Ph.D. Candidate in Computer Science**  
Interactive Data Group, State Key Lab of CAD&CG  
Zhejiang University  
Supervisor: Prof. Yingcai Wu
- Jun. 2019  
Sept. 2014 **B.Eng. in Digital Media Technology**  
College of Computer Science and Technology  
Zhejiang University

Hangzhou, China

Hangzhou, China

## RESEARCH & WORK EXPERIENCE

- Jun. 2022 **Research Intern, Software Engineer**  
Feb. 2022 JD Intelligent Cities Research, Jing Dong Technology  
Worked on visual analytics for urban computing, especially on intelligent transportation and disease control. Supervised by Dr. Jie Bao and Prof. Yu Zheng.
- Dec. 2021 **Research Intern**  
Sept. 2019 IDEA Lab, Alibaba-Zhejiang University Joint Research Institute of Frontier Technology  
Supervised by Prof. Yingcai Wu. Cooperated with DAMO Academy and Cainiao.
- Dec. 2021 **Research Intern**  
Sept. 2020 Cainiao Smart Logistics, Alibaba Group  
Worked on visual analytics for smart logistics, especially on order processing monitoring and optimization.
- Sept. 2020 **Research Intern**  
Nov. 2019 Alibaba DAMO Academy for Discovery, Adventure, Momentum and Outlook, Alibaba Group  
Worked on techniques and theories for intelligent data video generation.

Beijing, China

Hangzhou, China

Hangzhou, China

Hangzhou, China

## PUBLICATIONS

Asterisk\* indicates equal contribution.

### A Visualization Approach for Monitoring Order Processing in E-Commerce Warehouse

Junxiu Tang, Yuhua Zhou, Tan Tang, Di Weng, Boyang Xie, Lingyun Yu, Huaqiang Zhang, Yingcai Wu

IEEE Transactions on Visualization and Computer Graphics. 2022. (Proceedings of VIS' 21) DOI: 10.1109/TVCG.2021.3114878.

### Narrative Transitions in Data Videos

Junxiu Tang, Lingyun Yu, Tan Tang, Xinhuan Shu, Lu Ying, Yuhua Zhou, Peiran Ren, Yingcai Wu

IEEE Visualization Conference (VIS). Short Paper. 2020. (Proceedings of VIS' 20) DOI: 10.1109/VIS47514.2020.00037.

### SmartShots: Enabling Automatic Generation of Videos with Data Visualizations Embedded

Tan Tang\*, Junxiu Tang\*, Jiewen Lai, Lu Ying, Peiran Ren, Lingyun Yu, Yingcai Wu

ACM International Conference on Multimedia. Abstract. 2020. (Proceedings of MM' 20.) DOI: 10.1145/3394171.3414356.

### SmartShots: An Optimization Approach for Generating Videos with Data Visualizations Embedded

Tan Tang, Junxiu Tang, Jiewen Lai, Lu Ying, Yingcai Wu, Lingyun Yu, Peiran Ren

ACM Transactions on Interactive Intelligent Systems. 2022. DOI: 10.1145/3484506.

### Nebula: A Coordinating Grammar of Graphics

Ran Chen, Xinhuan Shu, Jiahui Chen, Di Weng, Junxiu Tang, Siwei Fu, Yingcai Wu

IEEE Transactions on Visualization and Computer Graphics. 2022. DOI: 10.1109/TVCG.2021.3076222.

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## What Makes a Data-GIF Understandable?

Xinhuan Shu, Aoyu Wu, **Junxiu Tang**, Benjamin Bach, Yingcai Wu, Huamin Qu

IEEE Transactions on Visualization and Computer Graphics. 2021. (Proceedings of VIS' 20) DOI: 10.1109/TVCG.2020.3030396.

## Explore Mindfulness without Deflection: A Data Art Based on the Books of Songs

Yifang Wang, Yang Wang, Yifan Cao, Huamin Qu, **Junxiu Tang**, Yingcai Wu

IEEE VIS Art Program (VISAP). Pictorial. 2021. DOI: 10.1109/VISAP52981.2021.00014.

## Examining Interaction Techniques in Data Visualization Authoring Tools from the Perspective of Goals and Human Cognition: A Survey

Sadia Rubab, **Junxiu Tang**, Yingcai Wu

Journal of Visualization. 2021. DOI: 10.1007/s12650-020-00705-3.

## Design Guidelines for Augmenting Short-form Videos using Animated Data Visualizations

Tan Tang, **Junxiu Tang**, Jiayi Hong, Lingyun Yu, Peiran Ren, Yingcai Wu

Journal of Visualization. 2020. (China Vis' 19) DOI: 10.1007/s12650-020-00644-z.

## Toward the Better Modeling and Visualization of Uncertainty for Streaming Data

Tan Tang, Kaijuan Yuan, **Junxiu Tang**, Yingcai Wu

Journal of Visualization. 2018. (China Vis' 18) DOI: 10.1007/s12650-018-0518-y.

## TEACHING

- Winter 2022 *Teaching Assistant*, Event Sequence Visualization, Cross Media Visualization, ZJU  
*Teaching Assistant*, Event Sequence Visualization, Information Visualization, ZJU
- Summer 2021 *Coordinator, Teaching Assistant*, International Visualization Summer School, ZJU
- Winter 2020 *Coordinator, Teaching Assistant*, Cross Media Visualization, ZJU
- Winter 2020 *Coordinator, Teaching Assistant*, Information Visualization, ZJU
- Summer 2020 *Teaching Assistant*, International Visualization Summer School, ZJU
- 2019

## REVIEWING

- 2022 IEEE VIS Conference, China Vis

## CONFERENCE PRESENTATIONS

- Oct. 2021 A Visualization Approach for Monitoring Order Processing in E-Commerce Warehouse  
IEEE VIS Conference, Virtual
- Oct. 2020 Narrative Transitions in Data Videos  
IEEE VIS Conference, Virtual
- Jul. 2019 Design Guidelines for Augmenting Short-form Videos using Animated Data Visualizations  
China Vis, Chengdu, China
- Jul. 2018 Toward the Better Modeling and Visualization of Uncertainty for Streaming Data  
China Vis, Shanghai, China  
A Gear-storyline of Inception  
China Vis Art Exhibition, Shanghai, China

## SKILLS

- Programming TypeScript, JavaScript, Python, C/C++
- Web Devs React.js, Vue.js, D3.js
- Design Tools Adobe Illustrator, Photoshop, Premiere, After Effects, InDesign, Axure, Unity, MAYA
- Language Chinese Mandarin (native), English (professional working proficiency)